Conference Notes - CAIS/CostWorks User Meeting
April 3-5, 2007 - Las Vegas, Nevada

Meeting Date: April 3, 2007

Best Practices Session

NETL – Todd Gump and Chris Channel

1. NETL's CAIS database has not been maintained for the past 12 months and we have been busy bringing the CAIS database up-to-date.
2. We use our work order system to feed CAIS.
3. Our biggest problem is "costs". We find that our contractor (8A) provides cost estimates that are 200% to 400% higher than those found in CostWorks.
4. A member from the CAIS group suggested that NETL use a "Site Factor" to equalize or adjust CostWorks costs to the locally provided contractor costs.
5. Another member from the group said that "8A contracts are convenient, are not necessarily cheaper than other types of contracts, and are mandated by law".
6. NETL's CostWorks CD is broken and has asked for a new CD (from Bob Gair). RS Means furnished a CD to NETL.

OST NA-15 – Milt West

1. OST transports nuclear material across the country.
2. Our biggest problem is lack of consistency.
3. All of their buildings are located at PANTEX.
4. We have a diverse inventory (buildings, aircraft, radio relay stations)
5. We use CostWorks on a server
6. Management does not understand maintenance concepts and tend to apply the $10/sq foot rule to everything.
7. We want to use Maximo CMMS

NL - Brookhaven, NY - Mike Paquette

1. Mike showed two videos of the Brookhaven Lab area.
2. Brookhaven uses ISES Corporation to conduct inspections and to run their tracking systems. They do not use CAIS Web.
3. They are in the process of performing a survey of electrical systems and will utilize FM&R information from CostWorks.
4. Bob Gair made a suggestion regarding PM tasks and said that he would follow-up with Mike.

Lawrence Livermore National Labs – Dennis Chew

1. Currently use the previous version of CAIS (version 5.3).
2. LLNL uses Microsoft Access with CAIS to generate reports for management.
3. Planning to use CAIS web in future.
4. 96% of ladders at site have failed building codes (coded red).

5. Infra red arc flash ratings coming up.
6. We have 4 CAS inspectors at 2 major sites.
7. LLNL is now in their 5th-3 year cycle of inspections.

NREL - Golden, Colorado – Mike

1. NREL has 2 sites: Golden and Bolder with 30 buildings.
2. NREL has different types of assets such as wind tunnels.
3. NREL plans to use Parsons Brinkerhoff to do next inspections.

Oak Ridge National Labs – Ed Lee

1. ORNL uses CostWorks
2. ORNL uses DataStream CMMS to track deficiencies; a very powerful fully featured tool.
3. Biggest problem at site is "adders" (they use six sets of adders).
4. Building costs at ORNL are 8-10 times the costs shown in CostWorks.
5. ORNL uses a special program to do R&M Forecasting.
6. A new situation here is that contractors are putting up their own buildings.
7. Ed wanted to know if CAIS could be integrated with a work order system.
8. Talked about"fixing old buildings and equipment that you can't inspect" and asked for feedback from sites on how they accomplish this (e.g., many older Oak Ridge buildings have an extensive steam pipe heating system that is embedded within floors).

NTS – Dan Soper

- Dan showed an excellent video of the NTS site.

Pantex – Steve Patterson

1. Pantex is the final assembly point for nuclear weapons.
2. Pantex uses CAIS Web and has 35,000 active records in the CAIS database.
3. It also has $695,000,000 in assets recorded in CAIS.
4. CAIS is used for tracking projects, collecting inspection data, generating information queries, and to calculate deferred maintenance costs (DM = $288,000,000 DM).
5. Steve Patterson likes the CAIS Web system

Los Alamos - Gene Buck

1. We have been using CAIS since 2002.
2. Deferred Maintenance = $577,000,000, RPVs went up, FCIs went up
3. 8000 assets stored in CAIS
4. No inspectors available, but management is talking about hiring inspectors.
5. Trained 25 people to use CAIS reports
6. Likes the CAIS "push button" reports (i.e., standard reports) and wants more of them.

7. People ask him for a lot of information.
8. Gene says that people must be educated first, so that they know what information is available in the database.
9. Gene recommended that an education course be made available to management and users (e.g., people interested in CAIS & FIMS data).
10. People at this site are interested in 2003 Congressional Ten Year Site Plan records.

Savannah River Site– Debbie Etheredge

1. SRS is using CAIS to record inspection data on railroads and tracks.
2. Debbie is a new user to CAIS.
3. SRS wants to use the PANTEX inspection form and will speak with Steve Patterson.

EES - Norm Ayers

- Norm made a presentation on CAIS and CostWorks accomplishments (from October 2007 to March 2007).

DOE Headquarters – Gary Horn

1. Reviewed organizational changes at OECM.
2. Talked about OECM's interest in standardizing on a model for calculating sustainment costs.
3. Discussed the planned FIMS validation process for 2007, 2008, 2009.

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Meeting Date: April 4, 2007

<u>Presenter: Ken Rowe</u>

1. Ken Rowe and Ruth Ann Smith made presentations on (1) CAIS Status, (2) CAIS enhancements, (3) CAIS User Guide Updates.

2. Steve Patterson asked if the CAIS Web IU Detail screen could be modified so that one or more columns could be "dragged" across the screen, to other positions.

3. Marilyn Overman (NTS) reported a problem with CAIS Web that involved the highlighting of horizontal information across the IU Detail screen. Marilyn demonstrated, with Ken's help, that the highlighting function deactivates when the entire screen is shifted to the right. Ken Rowe said that he would investigate and fix. Dennis McDermitt said that he would contact another member of his team (Java expert) to assist in the research for this function.

4. Ken Rowe stated that an important future project in CAIS Web might be to integrate CAIS with a commercial CMMS application such as Maximo, Passport, DataStream or Champs. Steve Patterson asked for integration with Passport, so that he could use the CAIS and Passport to manage projects (and possibly work orders). Steve wants to bring the Work Order and Inspection Unit together and match to existing IU. Work Order processes should drive CAIS (and not the other way around). Dennis McDermitt suggested that we develop a general set of requirements to define the interface between CAIS Web and all other CMMS applications. A working group consisting of Steve Patterson, Dennis Chu and Norm Ayers will be formed to support the creation of this requirements document. Steve Patterson will provide an initial draft of the requirements document.

5. Ken Rowe took a survey of the various CMMS software applications currently used by sites that were represented at the meeting. CMMS applications, by site, are listed below.

   - Passport – Pantex, LANL, INEL, SRS
   - Champs – NETL
   - Maximo – NTS
   - FAMIS– NREL
   - SAP – Y12
   - DataStream - ORNL
   - Custom-developed: LLNL, Paducah

<u>Presenter: Ken Baker</u>

1. Ken Baker made a MS PowerPoint presentation to the group on the subject of the new CostWorks Sustainment Calculator.

2. Gary Hoitt demonstrated the CostWorks product to the group.

3. Max Rosenquest liked the possibility of generating an RPV at the assembly level.

4. There was a general discussion, led by Ken Baker, on "how to calculate Sustainment at the building portfolio level". After some discussion from group members, Gary Horn asked that no additional work be done on this topic, as it was being researched by DOE Headquarters personnel.

5. It was decided that the CostWorks CD should be distributed as early as possible next year (i.e., January 2008), to help sites complete their budget/facility plans on time. Gary suggested that calculating a Department Average Sustainment ranges be based on a weighted RPV methodology.

<u>Presenter: Bob Gair</u>

Bob made a presentation on the US Construction Industry Market Outlook.

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Meeting Date: April 5, 2007

<u>Comment: Dan Soper</u>

1. Dan asked for a "show of hands" regarding the election of a coordinator for the CAIS/CostWorks User Group. All users voted for Dan Soper, and Dan agreed to be the User Conference Coordinator for the upcoming year.

2. Dan asked the group about the need to have one or two user meetings this year. After some discussion, the group agreed on having two meetings in Las Vegas, pending approvals by management unless an alternate "zero cost" location can be identified in the near future. Please submit any suggestions on known locations or volunteer your site and support to Dan Soper soperdb@nv.doe.gov.

<u>Presenter: Ken Rowe</u>

1. Ken Rowe demonstrated the major features of CAIS Web to the group. Ken also demonstrated how the "Property Type" and "Mission Dependent" fields can be filtered and viewed in reports.

2. Ken stated that one his highest priorities for improving CAIS Web in the future will be to complete the "CAIS Upload to FIMS" function. Gary Horn recommended that, when this function becomes available, that it be coordinated with FIMS Administrators.

3. Billy Ray suggested that the two left-most columns be "frozen" on the IU Detail screen, to improve usability.

4. Norm noted that database performance was slow, when accessing NTS and LLNL data. Norm will talk to Ken Rowe about the possibility of implementing a database reorganization process.

5. Billy Ray reported that NTS is experiencing a problem (i.e., bug) with CAIS Web when changing an existing WBS or Inspection Unit or Component. Billy Ray demonstrated this problem with Ken Rowe's help (asking Ken to enter IU # 153412) and then the screen went blank. Ken Rowe made a note of this problem.

6. Billy Ray asked if Ken could "scrunch up" the IU Detail Report.

7. Gary Horn asked if a total (i.e., count field) be placed at the bottom of the IU Detail Screen.

8. Steve Patterson asked if the "Headers" could be locked on the IU Detail screen, to improve usability.

9. Users applauded Ken for completing many of the "improvements to the user interface" that were requested at the last meeting in Santa Fe.

10. Milt asked if CAIS Web worked with the Apple "Safari" web browser.

11. A user (NETL?) asked it would it be possible to customize CAIS web screen labels called: Loc1, Loc2, Loc3, Loc4, Loc5 so that sites could name these labels using their own conventions.

Comment: Ken Rowe

1. CAIS Web training for Naval Reactors will be held in Pittsburgh, on May 2-3rd, 2007.

2. Security requirements to attend this event is an L clearance or higher.

3. Norm Ayers suggested that we investigate the use of "web-casting" as an alternative to high-security, on-site training.

Presentation: Steve Patterson (Pantex)

1. Steve made another "best practices" presentation on the subject of using CAIS Web to collect non-inspection types of data.

2. Pantex uses several standard fields on the IU Detail screen of CAIS Web to collect information on "suspect code violations", "inspection rotation" and "repair purpose"

3. Steve recommends that sites use CAIS Web to collect more information than just "inspection data" so that, if a site is audited, one will have sufficient information to defend one's position and past decisions.

Comment: Dennis Chew

- Dennis uses Microsoft Access as a reporting tool with CAIS (version 5.3) and generates custom reports for management. Having access to this information makes the system "defendable".

Comment: Gene Buck

- Gene recommends that people use CAIS Web to collect and store data other than Inspection Data.

Comment: Steve Patterson

- Steve Patterson asked if CAIS Web could be modified to provide integration with CostWorks, so that he could use this software to perform Cost Estimating.

<u>Comment: Billy Ray Johnson</u>

1. Recommends that people use the CAIS Web Type Search Filter function and then save the results to the CAIS web Favorites function.

2. Recommends that, to train people on CAIS Web, that the CAIS Administrator create a "Training Asset", then generate several Inspection Units to be used for training, set the Deferred Maintenance Flag set to "OFF", and then allow the trainee to make changes to the Inspection Units.

3. Suggests that during monthly conference calls with CAIS users we include the topic of "Best Practices" in discussions.

<u>Presenter: Bob Gair</u>

• Bob Gair did a short presentation on the subject of Master Format 95/2004.

<u>Presenter: Max Rosenquist</u>

1. Max is developing a checklist to validate the processes required to generate RPV and Sustainment.

2. Max inquired: "What questions can be asked to make sure you are doing a good job".

3. Max asked people from this meeting to look at his checklist and provide feedback.

4. Max is having trouble getting Science sites to tailor their CostWorks models. Max thinks that it may be "too much work" for them to develop realistic models (i.e., to build the model, swap components, etc.).

5. Max wants to know who else is using CostWorks (i.e., other program offices) and what does it really take to use it CostWorks (i.e., to build a realistic model). *Paul Reynolds at LLNL should be able to give Max this information.*

6. Max is sponsoring a symposium, to be held in the Chicago on July 24-26, and is inviting software vendors such as VFA and Whitestone to demonstrate their products and to have open discussions on concepts such as Condition Assessments, "The Right level of Maintenance Funding", RPV recommendations to value assets, and Operations Costs. Max also invited the EES team to attend this conference.